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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Hillman et al.

Title: PROTEINS ASSOCIATED WITH EGF SIGNALING

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SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figure(s) 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 2A, 2B, 2C, 2D, 2E, and 3, as fourteen (14) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108**. **A duplicate copy of this communication is enclosed.**

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

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5'	TTC	GTG	AAG	CAC	TCC	ATG	GAG	CAT	GTG	TCA	ATG	GCC	TGT	GTC	CAC	CTG	GCT	TCC	54
	9		18		27		36		45										
	63		72		81		90		99									108	
	AAG	ATA	GAA	GAG	GCC	CCA	AGA	CGC	ATA	CGG	GAC	GTC	ATC	AAT	GTG	TTT	CAC	CGC	
	117		126		135		144		153									162	
	CTT	CGA	CAG	CTG	AGA	GAC	AAA	TAA	TCG	TTA	TGT	ACC	TTC	AGG	TGT	TAG	AGT		
	171		180		189		198		207									216	
	GTG	AGC	GTA	ACC	AAC	TGG	TCC	AGA	CCT	CAT	GGG	TAG	CCT	CTG	AGG	GTA	AGT		
	225		234		243		252		261									270	
	GAC	TAA	GAC	TTC	TCC	TCT	GCT	GTC	CAA	GCG	CTT	TGG	TGC	AGG	GAC	AGC	GGC	ATC	
	279		288		297		306		315									324	
	TTC	AGC	CAA	TCC	AGT	GCA	GGC	TCT	CCA	CCG	AAG	GCT	GGC	TCT	AGA	CTG	GTG	ACC	
	333		342		351		360		369									378	
	CCT	TGT	TGA	AAT	GGG	ACA	GTT	GGC	AGC	GGC	TCT	GAT	GAG	CCC	GAG	AAG	AGG	CCT	
	387		396		405		414		423									432	
	GCC	CTT	GGG	TGC	GGA	GTC	TCC	CTC	CGC	ACG	ATG	CTC	CCA	CGC	GTC	CAA	CTT	GCA	
	441		450		459		468		477									486	
	CCC	AAG	GGG	CTT	TTC	CCT	CTT	CCA	AGT	GGA	CTC	CTT	CAA	GGA	AGC	TGC	AGC	TGC	

FIGURE 1A

495	504	513	522	531	540
GTC AGC AGA GAA GGG GCC TGC CGC CAG CGC CCT GGA GGA AGA GGA ACC					
549	558	567	576	585	594
CAA GAG GAT GGC TTG TCT CCC AGC AGC CAC ACC GGC TTT GTG CTC AGC CAG TTC					
603	612	621	630	639	648
ATT TGA GTT TGC ATG TTT CTC TGC ACT ATG GAT TTT GAG CAT TTA GAT TTC TTT					
657	666	675	684	693	702
AAT CAA AAG CGT TTT AGT GAC TCC AGT AGA CAT TTT CTT TCT GAG GCA TCG TGC					
711	720	729	738	747	756
TTT GCA TGA GAG CAG GCC AAG GTT GAG GGG AAA AGT AAA GTT AAA GTC GGT TCT					
765	774	783	792	801	810
CTT TCA TAG CAA CAC GTA TTG TCT GAC ATT CAG CCA GCT TTT TTT TCT AAT					
819	828	837	846	855	864
AAT TTC TGT GCC TTT CTG TCC TGT ATT TAC TGT ATT TAG AAA AAG CAG CTA GAA					
873	882	891	900	909	918
TAT TTC TCC ATT AAC TCT TGA GAT TCA CAG GAC TGT CTA GCT CTG AGT CCT AGC					
927	936	945	954	963	972
AAT AGA CTC CTT AGA GGA GTA GTA CGT TTA TCT TCT TTT TCT CTA GAT AAT GCA					

FIGURE 1B

981	990	999	1008	1017	1026
GGC GGA AGA CCT GGG TTC CCG GGT GGG GCA TTG CAG TTC TTC CTG TGT TTG GCT					
1035	1044	1053	1062	1071	1080
TCC AGG AAT TAC ATG AAC GAC AGC CTT CGC ACC GAC GTC TTC GTG CGG TTC CAG					
	M N D S L R T D V F V R F Q				
1089	1098	1107	1116	1125	1134
CCA GAG AGC ATC GCC TGT TGC ATT TAT CTT GCT GCC CGG ACG CTG GAG ATC					
P E S I A C A C I Y L A A R T L E I					
1143	1152	1161	1170	1179	1188
CCT TTG CCC AAT CGT CCC CAT TGG TTT CTT TTG TTT GGA GCA ACT GAA GAA GAA					
P L P N R P H W F L L F G A T E E					
1197	1206	1215	1224	1233	1242
ATT CAG GAA ATC TGC TTA AAG ATC TTG CAG CTT TAT GCT GCT CGG AAA AAG GTT GAT					
I Q E I C L K I L Q L Y A R K V D					
1251	1260	1269	1278	1287	1296
CTC ACA CAC CTG GAG GGT GAA GTG GAA AAA AGA AAG CAC GCT ATC GAA GAG GCA					
L T H L E G E V E K R K H A I E E A					
1305	1314	1323	1332	1341	1350
AAG GCC CAA GCC CGG GGC CTG TTG CCT GGG GGC ACA CAG GTG CTG GAT GGT ACC					
K A Q A R G L L P G G T Q V L D G T					

FIGURE 1C

1359	1368	1377	1386	1395	1404
TCG GGG TTC TCT CCT GCC CCC AAG CTG GTG GAA TCC CCC AAA GAA GGT AAA GGG					
S G F S S P A P A P K L V E S P K E G K G					
1413	1422	1431	1440	1449	1458
AGC AAG CCT TCC CCA CTG TCT GTG AAG AAC ACC AAG AGG AGG CTG GAG GGC GCC					
S K P S P L S V K N T K R L E G A					
1467	1476	1485	1494	1503	1512
AAG AAA GCC AAG GCG GAC AGC CCC GTG AAC GGC TTG CCA AAG GGG CGA GAG AGT					
K K A K A D S P V N G L P K G R E S					
1521	1530	1539	1548	1557	1566
CGG AGT CGG AGC CGG AGC CGT GAG CAG AGC TAC TCG AGG TCC CCA TCC CGA TCA					
R S R S R S R E Q S Y S R S P S R S					
1575	1584	1593	1602	1611	1620
GCG TCT CCT AAG AGG AGG AAA AGT GAC AGC GGC TCC ACA TCT GGT GGG TCC AAG					
A S P K R R R K S D S G S T S G G S K					
1629	1638	1647	1656	1665	1674
TCG CAG AGC CGC TCC CGG AGC AGG AGT GAC TCC CCA CCG AGA CAG GCC CCC CGC					
S Q S R S R S R S D S S P P R Q A P R					
1683	1692	1701	1710	1719	1728
AGC GCT CCC TAC AAA GGC TCT GAG ATT CGG GGC TCC CGG AAG TCC AAG GAC TGC					
S A P Y K G S E I R G S S R K S K D C					

FIGURE 1D

1737	1746	1755	1764	1773	1782
AAG TAC CCC CAG AAG CCA CAC AAG TCT CGG AGC CGG AGT TCT TCC CGT TCT CGA					
K Y P Q K P H K S R S R S S R S R					
1791	1800	1809	1818	1827	1836
AGC AGG TCA CGG GAG CGG GCG GAT AAT CCG GGA AAA TAC AAG AAG AAA AGT CAT					
S R S R E R A D N P G K Y K K S H					
1845	1854	1863	1872	1881	1890
TAC TAC AGA GAT CAG CGA CGA GAG CGC TCG AGG TCG TAT GAA CGC ACA GGC CGT					
Y Y R D Q R R E R S R S Y E R T G R					
1899	1908	1917	1926	1935	1944
CGC TAT GAG CGG GAC CAC CCT GGG CAC AGC AGG CAT CGG AGG TGA GGC GGG GTT					
R Y E R D H P G H S R H R R					
1953	1962	1971	1980	1989	1998
GCA GTG ACT GGT GGC CGC AAG CCC TTC CCT GGG GAG TAC CTG ATG GCT GCC CTT					
2007	2016	2025	2034	2043	2052
TGA CCC CCG GTG GCT GCC CTT TGA CCC CCG GGT GTG CTC TCA GCG CAA GTG GTC					
2061	2070	2079	2088	2097	2106
CTA GAA CAG GAT TCT TTT TGG AAA TGT CTG TCG ACT GGA CCT TGG TGG ATT TGG					
2115	2124	2133	2142	2151	2160
AAA TGG AAC TGA GGG ACC GGT GAC ACG TGC TTC AGA CCG GTC TGG GGT GCG GCG					

FIGURE 1E

2169	2178	2187	2196	2205	2214
CAC ACC TGG GCC CGT GCA GGG CTC AGC TCG GCA GCA GCT CTG AGG GCA GCT CAA					
2223	2232	2241	2250	2259	2268
TGA AAA AGT GAA TGC ACA CGC CCT TGT TGG CGT GGC CTG GCA TGG CCT GGT GCT					
2277	2286	2295	2304	2313	2322
ATC GGC AGC CGC TCT CCA CTC CCC GAC TGA TAC TCA ATT ACG TGA AGC CAA GAA					
2331	2340	2349	2358	2367	2376
AGA TGA TTT TTA GAA CCT TTG CCT ATA TTA GGT TGT ACT TAT GTA CAT ATT TTG					
2385	2394	2403	2412	2421	2430
CAG TGT TTC ACA GGA GAA AGT GGC CTT AAC TGC CCC TTA TTC TCT CTC CAC GTT					
2439	2448	2457	2466	2475	2484
GTA AAT AAA CAT GTG TTT AAT ACA AGT TAA AGC TAT GTA TGA AAA CTC AGA ACT					
2493	2502	2511	2520	2529	2538
TGA ATC CCG TCA GCT TAA AAC TTG TGT AGG GAA TCC TGA CTT TTA AAA TGT GAG					
2547	2556	2565	2574	2583	2592
GGT ATT TGG ATC TGT GTT GAA AGT CGT ATA TTT TTA TCT GTG CGG TGC TGA GTG					
2601	2610	2619	2628	2637	2646
CAG GCC ACC AGC TCC TAA ATA GAG GTT CCC TAT ATG CGC GTA TGA CAT GGT GAA					

FIGURE 1F

2655	2664	2673	2682	2691	2700
TAA ACA CAA CTC TCT CCA CTC AGG ACA TCC GGA GCG TTA TGG ACG TGG TAG GTG					
2709	2718	2727	2736	2745	2754
GTC GTT CTG TGT GCT TGT GAA AGT GTC CAG GCG TGT GCA CAG CCA GTG CGC CCA					
2763	2772	2781	2790	2799	2808
CTT CCG GGC TCC TTG CTC CCT GCT GTA CTG AAG TTT TGG ATT TTG CAT CCA ATC					
2817	2826	2835	2844	2853	2862
CTG TGT GCC TGC CCT TCT GCC GAA GCT TGT GAG GGG CCT GAG TCC TCT GCC CAT					
2871	2880	2889	2898	2907	2916
CAG GAT GAC AGG CTC CTT CCT GCA GGG CCA TAG GAG GGA AGT TTT GGA AAC ACA					
2925	2934	2943	2952	2961	2970
GAA TGA TTC CAA GGT GCT CTC GTT CCT GAG GGG GAC TGG TTT GTA ACC CAT GAC					
2979	2988	2997	3006	3015	3024
ATC TGT GGG CGA GAG AGG CAG CTG GGA GCA GGA CAC TTG GAG GGT CAC CCC ACG					
3033	3042	3051	3060	3069	3078
GGG GTG GCA CCT GCA CTC TGA GTG CCC CCC ACT GTC ATC AGC TGC CTC TTA CCG					
3087	3096	3105	3114	3123	3132
TGG ACA CAG TTT TGG TTT TGG GGA CTA GGG GGC CCC ACT CCT GGT GGT ACC GTT					

FIGURE 1G

3141	3150	3159	3168	3177	3186
TGG ACT TAC TAG GGC AGT GGG ACA TAT AGG CCG GGG CTA GTG GGA TAA CGG GGA					
3195	3204	3213	3222	3231	3240
GTT ACG CCT GAT GAC TTT TTT GAT GGA ATC CTG CAT TAG ATA GCT GGT GGG ACC					
3249	3258	3267	3276	3285	3294
CCC CCC TCA GAA TTG GGG AAC TGA GGA GAC TCC AGG GAG GGT GTC CTT CCA GGG					
3303	3312	3321	3330	3339	3348
AGA GCA GCT ATG AGG GGC CCC CTA GCT TCC TGT GCC TGG AAG TAA GAG AAC CAG					
3357	3366	3375	3384	3393	3402
TAA AGG GCC ATA CAC ACC TGT ACC CAA GAG ACC GCT CTC CAT TTG CTT TCT TTT					
3411	3420	3429	3438	3447	3456
TTT ACT AAA TAA TTG TAA AAT ATT ATG ACA TAA AGA ACC ATT TAA GGC CAA					
AAA AAA AA 3'					

FIGURE 1H

5'	10	19	28	37	46	55
GCCT	CCC	TGT	CCC	CCG	ACC	CTC
			TTT	TGA	TGC	CTC
				AAG	AGC	AGA
				TGA	AGA	GGA
						AGA
	64	73	82	91	100	109
AGA	GGA	GGA	GGA	TGA	AGA	GGA
				AGT	GGC	AGC
					TTG	GAG
						GCT
	118	127	136	145	154	163
GCC	CCC	AAG	ATG	GAG	TCA	GCT
				GGG	AAC	CTC
				CCA	GCG	GCC
					CCG	CCC
					TTC	CCG
						CCC
	172	181	190	199	208	217
CAC	TCA	TCG	AAA	AAC	CTG	CTC
				ACA	GCG	CCG
					CCG	CCG
				AGC	CAT	GAG
					AGC	CTT
						CCG
	226	235	244	253	262	271
GAT	GCT	GCT	CTA	CTC	AAA	AAG
				AAC	AAG	CAC
					CAC	CTC
					GCT	GCT
					CCA	CTG
					GAA	GCT
						TTG
						GGG
	280	289	298	307	316	325
GCG	CCA	CCG	GGG	CCG	GCG	CCT
					CGC	ACA
					CCC	CAA
						GAA
					CCA	TCT
						TTC
						ACC
	334	343	352	361	370	379
CCA	GCA	AGG	GGG	TGC	GAC	GCC
				ACA	GGT	GCC
				ATC	CCC	CTG
					TTG	TCG
					TTT	TGA
						CTC
	388	397	406	415	424	433
CCC	CCG	GGG	GCC	ACC	TCC	ACC
				CCG	GCT	GGG
					TCT	TCT
					AGG	TGC
						CAT
						GGC
						TGA
	442	451	460	469	478	487
GGA	TGG	GGT	GAG	AGG	GTC	TCC
					ACC	GCC
					CTC	TGG
					GCC	CCC
					CAT	GGA
						AGA

FIGURE 2A

496	TGG	ACT	CAG	GTG	GAC	TCC	AAA	GTC	TCC	TCT	GGA	CCC	TGA	CTC	GGG	CCT	CCT	TTC	541
						505			514		523				532				
550	ATG	TAC	TCT	GCC	CAA	CGG	TTT	TGG	GGG	ACA	ATC	TGG	GCC	AGA	AGG	GGA	GCG	CAC	595
	M	Y	S	A	Q	R	F	W	G	T	I	W	A	R	R	G	A	H	
						559			568		577				586				
604	TTG	GCA	CCC	CCT	GAT	GCC	AGC	ATC	CTC	ATC	AGC	AAT	GTG	TGC	AGC	ATC	GGG	GAC	649
	L	A	P	P	D	A	S	I	L	I	S	N	V	C	S	I	G	D	
						613			622		631				640				
658	CAT	GTG	GCC	CAG	GAG	CTT	TTT	CAG	GGC	TCA	GAT	TTG	GGC	ATG	GCA	GAA	GAG	GCA	703
	H	V	A	Q	E	L	F	Q	G	S	D	L	G	M	A	E	E	A	
						667			676		685				694				
712	GAG	AGG	CCT	GGG	GAG	AAA	GCC	GGC	CAG	CAC	AGC	CCC	CTG	CGA	GAG	GAG	CAT	GTG	757
	E	R	P	G	E	K	A	G	Q	H	S	P	L	R	E	E	H	V	
						721			730		739				748				
766	ACC	TGC	GTA	CAG	AGC	ATC	TTG	GAC	GAA	TTT	CTT	CAA	ACG	TAT	GGC	AGC	CTC	ATA	811
	T	C	V	Q	S	I	L	D	E	F	L	Q	T	Y	G	S	L	I	
						775			784		793				802				
820	CCC	CTC	AGC	ACT	GAT	GAG	GTA	GTA	GAG	AAG	CTG	GAG	GAC	ATT	TTC	CAG	CAG	GAG	865
	P	L	S	T	D	E	V	V	E	K	L	E	D	I	F	Q	Q	E	
						829			838		847				856				

FIGURE 2B

874	883	892	901	910	919
TTT TCC ACC CCT TCC AGG AAG GGC CTG GTG TTG CAG CTG ATC CAG TCT TAC CAG					
F S T P S R K G L V L Q Q I Q S Y Q					
928	937	946	955	964	973
CGG ATG CCA GGC AAT GCC ATG GTG AGG GGC TTC CGA GTG GCT TAT AAG CGG CAC					
R M P G N A M V R G F R V A Y K R H					
982	991	1000	1009	1018	1027
GTG CTG ACC ATG GAT GAC TTG GGG ACC TTG TAT GGA CAG AAC TGG CTC AAT GAC					
V L T M D D L G T L Y G Q N W L N D					
1036	1045	1054	1063	1072	1081
CAG GTG ATG AAC ATG TAT GGA GAC CTG GTC ATG GAC ACA GTC CCT GAA AAG GTG					
Q V M N M Y G D L V M D T V P E K V					
1090	1099	1108	1117	1126	1135
CAT TTC TTC AAT AGT TTC TTC TAT GAT AAA CTC CGT ACC AAG GGT TAT GAT GGG					
H F F N S F F Y D K L R R T K G Y D G					
1144	1153	1162	1171	1180	1189
GTG AAA AGG TGG ACC AAA AAC GTG GAC ATC TTC AAT AAG GAG CTA CTG CTA ATC					
V K R W T K N V D I F N K E L L L I					
1198	1207	1216	1225	1234	1243
CCC ATC CAC CTG GAG GTG CAT TGG TCC CTC ATC TTC TCT GTT GAT GTG AGG CGA CGC					
P I H L E V H W S L I S V D V R R R					

FIGURE 2C

1252	1261	1270	1279	1288	1297
ACC ATC ACC TAT TTT GAC TCG CAG CGT ACC CTA AAC CGC CGC TGC CCT AAG CAT					
T I T Y F D S Q R T L N R C P K H					
1306	1315	1324	1333	1342	1351
ATT GCC AAG TAT CTA CAG GCA GAG GCG GTA AAG AAA GAC CGA CTG GAT TTC CAC					
I A K Y L Q A E A V K K D R L D F H					
1360	1369	1378	1387	1396	1405
CAG GGC TGG AAA GGT TAC TTC AAA ATG AAT GTG GCC AGG CAG AAT AAT GAC AGT					
Q G W K G Y F K M N V A R Q N D S					
1414	1423	1432	1441	1450	1459
GAC TGT GGT GCT TTT GTG TTG CAG TAC TGC AAG CAT CTG GCC CTG TCT CAG CCA					
D C G A F V L Q Y C K H L A L S Q P					
1468	1477	1486	1495	1504	1513
TTC AGC TTC ACC CAG CAG GAC ATG CCC AAA CTT CGT CGG CAG ATC TAC AAG GAG					
F S F T Q Q D M P K L R R Q I Y K E					
1522	1531	1540	1549	1558	1567
CTG TGT CAC TGC AAA CTC ACT GTG TGA GCC TCG TAC CCC AGA CCC CAA GCC CAT					
L C H C K L T V					
1576	1585	1594	1603	1612	1621
AAA TGG GAA GGG AGA CAT GGG AGT CCC TTC CCA AGA AAC TCC AGT TCC TTT CCT					

FIGURE 2D

1630	1639	1648	1657	1666	1675
CTC TTG CCT CTT CCC ACT CAC TTC CCT TTG GTT TTT CAT ATT TAA ATG TTT CAA					
1684	1693	1702	1711	1720	1729
TTT CTG TAT TTT TTT TTC TTT GAG AGA ATA CTT GTT GAT TTC TGA TGT GCA GGG					
1738	1747	1756	1765	1774	1783
GGT GGC TAC AGA AAA GCC CCT TTC TTC CTC TGT TTG CAG GGG AGT GTG GCC CTG					
1792	1801	1810	1819	1828	1837
TGG CCT GGG TGG AGC AGT CAT CCT CCC CCT TCC CCG TGC AGG GAG CAG GAA ATC					
1846	1855	1864	1873	1882	1891
AGT GCT GGG GGT GGT GGG CGG ACA ATA GGA TCA CTG CCT GCC AGA TCT TCA AAC					
1900	1909	1918	1927	1936	1945
TTT TAT ATA TAT ATA TAT ATA TAT ATA TAT ATA TAT ATA TAT ATA TAT					
1954	1963	1972	1981	1990	
ATA TAA ATA TAT AAA TGC CAC GGT CCT GCT CTG GTC AAT AAA GAT C 3'					

FIGURE 2E

137	L E G A K K A K A D S P V N G L P K G R E S R S R S R S R E	1281694
1	M E G P K K A Q G H S P V N G L L K G Q E S R S Q S R S R E	GI 1276645
167	Q S Y S R S P S R S A S P K R R K S D S G S T S G G S K S Q	1281694
31	Q S Y S R S P S R S A S P K R R K S D S G S T S G G S K S Q	GI 1276645
197	S R S R S R S D S P P R Q A P R S A P Y K G S E I R G S R K	1281694
61	S R S R S R S D S P P R Q V H R G A P Y K G S E V R G S R K	GI 1276645
227	S K D C K Y - P Q K P H K S R S R S S R S R S R S R E R A	1281694
91	S K D C K Y L T Q K P H K S R S R S S R S R S R S R E R T	GI 1276645
256	D N P G K Y K K S H Y Y R D Q R R E R S R S Y E R T G R R	1281694
121	D N S G K Y K K S H Y Y R D Q R R E R S R S Y E R T G H R	GI 1276645
286	Y E R D H P G H S R H R R	1281694
151	Y E R D H P G H S R H R R C D R I S G G C P W S L P V G H T	GI 1276645
298		1281694
181	L A S V A L	GI 1276645

FIGURE 3